

ISL58 series
Solid-Shaft Incremental Rotary Encoder

◆Application

- Be used in area of automatic control, measurements, robotic X-Y labor and printing.
- Square flange, be used in numerical control machine.

◆Features

- Flange adapters, long working life, high shock.
- 2 quadrature output channel (A&B)
- Full impulses under 1024, it is suitable for narrow area application

◆Ordering Information

ISL58	09	-	102C	-	1024	BZ	1	-	5-30	C
ISLserial no. Φ58mm Square flange	Cable lead out : C= Plug connection at side G= Cable lead out at side H=Plug connection behind E= Cable lead out behind				Pulses P/R 100 200 250 360 400 500 600 1000 1024 1200 2000 2500 2500 4096 5000.....				Supply Voltage 5: +5V DC 5-30: 5~30V DC	Output Form E: Voltage L: Line Driver 26LS31/TTL K: Line driver 7272 F: Push-Pull C: Open Collector NPN CP: Open collector PNP
Shaft diameter 08=Φ08mm 09=Φ09mm 10=Φ10mm 15=Φ15mm					Output signal A=A phase B=A,Bphase BZ=A,BZphases ABZ=ABZ,A-B-Z- phase				Width of Z signal Blank=no Z phase 1: TZ=1T 2: TZ=1/2T 3: TZ=1/4T	

◆Note:

1. Please contact sales representative to confirm the correctness and availability of the part number

◆Technical Specifications

Electrical Specification				
Output circuit	Open collector	Voltage output	Push pull output	Line driver output
Power Vcc	5~30	5~30	5±0.25 5~30	5±0.25 5~30
Current	≤80mA	≤80mA	≤80mA	≤150mA
Load current	40mA	40mA	40mA	60mA
High-level output	Min Vcc*70%	Min Vcc-2.5V	Min Vcc-1.5V	Min 3.4V
Low-level output	Max 0.4V	Max 0.4V	Max 0.8V	Max 0.4V
Rise Time Tr	Max 1us	Max 1us	Max 1us	Max 200ns
Fall Time Tr	Max 1us	Max 1us	Max 1us	Max 200ns
Max Responding Frequency	300kHz	300kHz	300kHz	300kHz
Mechanical Specification				
Max speed(r/min)	Starting Torque	Max. Shaft Loading	Shocking	Vibration
6000	<0.12Nm	Radial:85N, Axial:50N	50G/11-ms	10G 10-2000Hz
Rotor Inertia	Working Temperature	Storage Temperature	Protection Grade	Weight
4*10 ⁻⁸ Kgm ²	-30~85℃	-35~95℃	IP51	400g

◆Connection Table

Signal	A	B	Z	Ā	Ḃ	Ż	Vcc	GND	Shielded
Color	Green	White	Yellow	Brown	Gray	Orange	Red	Black	Copper net
7Pin Plug	3	5	2	-	-	-	1	4	6
9Pin Plug	5	3	2	7	6	8	1	4	9

◆Dimensions(mm)
